PATENT COOPERATION TREAT

PCT

Y	REC'D 08	NOV 2004
1	WIPO	PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

23 MAY 2005

20970WO International application No. Internation			ent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)			
				International filing date (day/month 28.11.2003	rvyear)	Priority 29.11.	date <i>(daylmonthlyear)</i> 2002
	nation F2/4		ent Classification (IPC) o	r both national classification and IPC			
Appl		ASSE	TS B.V. et al				
1.	This Auth	inter	national preliminary ea and is transmitted to t	camination report has been prepare the applicant according to Article 36	ed by this Interi 3.	national	Preliminary Examining
2.	This	REP	ORT consists of a total	al of 5 sheets, including this cover	sheet.		
		bee	n amended and are th	panied by ANNEXES, i.e. sheets of e basis for this report and/or sheets on 607 of the Administrative Instru	s containing rea	tificatio	ns made before this Authority
	The	se anı	nexes consist of a total	of sheets.	E:) - E	PG 1
					1 (). 12 .	2CC4
3.	This	repoi	t contains indications Basis of the opinion	relating to the following items:		(52)
	, 11		Priority			$\overline{}$	•
	111	0	•	of opinion with regard to novelty, inv	ventivo etan an	d induc	trial applicability
	١٧		Lack of unity of inve	•	vontive Step an	u muus	and approaching
	V	⊠	Reasoned statemen	t under Rule 66.2(a)(ii) with regard ations supporting such statement	to novelty, inve	entive s	tep or industrial applicability;
	VI		Certain documents	ited			
	VII		Certain defects in th	e international application			
	VIII		Certain observations	on the international application			
Date	of sub	missio	n of the demand	Date of c	completion of this	report	
21.06.2004			02.11.2	02.11.2004			
	and o		address of the internati	onal Authorize	ed Officer		, con false,
	ninary		opean Patent Office - Gi				APPL

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00842

1. V	Nitl the and	receiving Office in res	nts of the international application (Replacement sheets which have been furnished to sponse to an invitation under Article 14 are referred to in this report as "originally filed" in is report since they do not contain amendments (Rules 70.16 and 70.17)):	,
		cription, Pages		
Ε	I-6	-		
1			as originally filed	
c	Clai	ims, Numbers		
. 1	-9		as originally filed	
	Ora	wings, Sheets		
	-2	•	as originally filed	
			age, all the elements marked above were available or fumished to this Authority in the ernational application was filed, unless otherwise indicated under this item.	
Т	The	se elements were ava	tilable or furnished to this Authority in the following language: , which is:	
	3	the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).	
	כ	the language of publi	cation of the international application (under Rule 48.3(b)).	
]	the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).	
3. V ir	Vith nte	n regard to any nucle e rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:	
	3	contained in the inter	national application in written form.	
	3	filed together with the	e international application in computer readable form.	
	3	furnished subsequen	tly to this Authority in written form.	
Ε	3	furnished subsequen	tly to this Authority in computer readable form.	
ב]		ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.	
	_	The statement that the listing has been furnished	e information recorded in computer readable form is identical to the written sequence shed.	
4. T	he	amendments have re	sulted in the cancellation of:	,
	3	the description,	pages:	
]	the claims,	Nos.:	`
	3	the drawings,	sheets:	

Form PCT/IPEA/409 (January 2004)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00842

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to thi report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

Industrial applicability (IA)

Yes: Claims

No: Claims

Yes: Claims

Yes: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document/s/:

D1: EP-A-0 346 129 (UNIV NEW JERSEY MED ;UNIV RUTGERS (US); JOHNSON & JOHNSON ORTHOPAE) 13 December 1989 (1989-12-13)

 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document) (see figure 1 and claim 1):

An artificial intervertebral disc, comprising a nucleus (2) of flexible material with the shape of a flattened body, with a lower and an upper side connected by a lateral surface, around which partial windings of traction-resistant fibres have been applied.

The subject-matter of claim 1 differs from this known disc in that the fibres around the nucleus are applied in at least substantially (mainly) radially oriented windings.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as to permit some shape variations of the nucleus in the longitudinal direction of the vertebral column, but not or only hardly in the direction perpendicular thereto.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The solution is not obvious and none of the documents cited in the search report hints to such a solution.

2. Claims 2-9 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-April 1997)

•

INTERNATIONAL PRELIMINARY International application No. PCT/NL 03/00842 EXAMINATION REPORT - SEPARATE SHEET

Upon entry of the regional phase the following should be noted:

- The features of the claims should be provided with reference signs placed in parenthesis.
- Prior art documents known to the applicant should identified in the description and relevant background art disclosed therein should be briefly discussed.
- Claim 1 should be drafted in the two-part form.

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-April 1997)